

FIGURE 1A

															cccc		60
						-							-		\TGCG(C	120
GCG	CTGC	CCT	AACG	ATG Met 1	CCG Pro	CCC Pro	GCC Ala	GCG Ala 5	CCC Prö	GCC Ala	CGC Arg	CTG Leu	GCG Ala 10	CTG Leu	GCC Ala		170
CTG Leu	GGC Gly	CTG Leu 15	GGC Gly	CTG Leu	TGG	CTC Leu	GGG Gly 20	GCG Ala	CTG Leu	GCG Ala	GGG Gly	GGC Gly 25	CCC Pro	Gly	CGC Arg		218
Gly	TGC Cys 30	GGG Gly	CCC Pro	TGC Cys	GAG Glu	CCC Pro 35	CCC Pro	TGC Cys	CTC Leu	TGC Cys	GGC Gly 40	CCA Pro	GCG Ala	CCC Pro	GGC Gly		266
GCC Ala 45	GCC Ala	TGC Cys	CGC Arg	GTC Val	AAC Asn 50	TGC Cys	TCG Ser	GGC Gly	CGC Arg	GGG Gly 55	CTG Leu	CGG Arg	ACG Thr	CTC Leu	GGT Gly 60		314
CCC Pro	GCG Ala	CTG Leu	CGC Arg	ATC Ile 65	CCC	GCG Ala	GAC Asp	GCC Ala	ACA Thr 70	GCG Ala	CTA Leu	GAC Asp	GTC Val	TCC Ser 75	CAC His		362
AAC Asn	CTG Leu	CTC Leu	CGG Arg 80	GCG Ala	CTG Leu	GAC Asp	GTT Val	GGG Gly 85	CTC Leu	CTG Leu	GCG Ala	AAC Asn	CTC Leu 90	TCG Ser	GCG Ala		410
CTG Leu	GCA Ala	GAG Glu 95	CTG Leu	GAT Asp	ATA Ile	AGC Ser	AAC Asn 100	AAC Asn	AAG Lys	ATT Ile	TCT Ser	ACG Thr 105	TTA Leu	GAA Glu	GAA Glu		458
GGA Gly	ATA Ile 110	TIJI Phe	GCT Ala	AAT Asn	TTA Leu	TTT Phe 115	AAT Asn	TTA Leu	AGT Ser	GAA Glu	ATA Ile 120	AAC Asn	CTG Leu	AGT Ser	GGG Gly		506
AAC Asn 125	CCG Pro	TTT Phe	GAG Glu	TGT Cys	GAC Asp 130	TGT Cys	GGC Gly	CTG Leu	GCG Ala	TGG Trp 135	CTG Leu	CCG Pro	CGA Arg	TGG Trp	GCG Ala 140		554
GAG Glu	GAG Glu	CAG Gln	CAG Gln	GTG Val 145	CGG Arg	GTG Val	GTG Val	CAG Gln	CCC Pro 150	GAG Glu	GCA Ala	GCC Ala	ACG Thr	TGT Cys 155	GCT Ala		602
GGG Gly	CCT Pro	GCC	TCC Ser 160	CTG Leu	GCT Ala	GGC Gly	CAG Gln	CCT Pro 165	CTG Leu	CTT Leu	GC	ATC Ile	CCC Pro 170	TTG Leu	CTG Leu		650
GAC Asp	AGT Ser	GGC Gly 175	TGT Cys	GGT Gly	GAG Glu	GAG Glu	TAT Tyr 180	GTC Val	GCC Ala	TGC Cys	CTC Leu	CCT Pro 185	GAC Asp	AAC Asn	AGC Ser		698
TCA Ser	GGC Gly 190	ACC Thr	GTG Val	GCA Ala	GCA Ala	GTG Val 195	TCC Ser	TTT Phe	TCA Ser	GCT Ala	GCC Ala 200	CAC His	GAA Glu	GGC	CTG Leu		746
CTT Leu 205	CAG Gln	CCA Pro	GAG Glu	GCC Ala	TGC Cys 210	AGC Ser	GCC Ala	TTC Phe	TGC Cys	TTC Phe 215	TCC Ser	ACC Thr	GGC Gly	CAG Gln	GGC Gly 220		794
CTC Leu	GCA Ala	GCC Ala	CTC Leu	TCG Ser 225	GAG Glu	CAG Gln	GGC Gly	TGG Trp	TGC Cys 230	CTG Leu	TGT Cys	GGG Gly	GCG Ala	GCC Ala 235	CAG Gln		843
CCC	TCC Ser	AGT Ser	GCC Ala 240	TCC Ser	TTT Phe	GCC Ala	TGC Cys	CTG Leu 245	TCC Ser	CTC Leu	TGC Cys	TCC Ser	GGC Gly 250	CCC Pro	CCG Pro	A	890

substituted

FIGURE 1B

cc	A CC	r cc	r GCC	2 000	ACC	TGT	' AGC	: ccc							GTC	
		25	5			7-2	260)	PEC	Thr	Let	Leu 265	Glr	. His	Val	
	270)		•••	, G1,	275	* 111	. Leu	Val	. GIY	280) His	Gly	Pro	CTG Leu	986
285	,	,	J		290	. vra	FIIE	nis	TIE	295	Ala	Pro	Leu	Pro	GTC Val 300	1034
ACT	GCC Ala	ACA Thr	CGC Arg	TGG Trp 305	usb	TTC Phe	GGA Gly	GAC Asp	GGC Gly 310	TCC Ser	GCC	GAG Glu	GTG Val	GAT Asp 315	GCC Ala	1082
GCT Ala	GGG	CCG	GCT Ala 320	GCC Ala	TCG Ser	CAT His	CGC Arg	TAT Tyr 325	GTG Val	CTG Leu	CCT	GGG Gly	CGC Arg 330	TAT	CAC	1130
GTG Val	ACG Thr	GCC Ala 335		CTG Leu	GCC Ala	CTG	GGG Gly 340	GCC Ala	GJA GCC	TCA Ser	GCC Ala	CTG Leu 345	CTG Leu	GGG Gly	ACA Thr	1178
	GTG Val 350		GTG Val	GAA Glu	GCG Ala	GCA Ala 355	CCT Pro	GCC Ala	GCC Ala	CTG Leu	GAG Glu 360	CTC	GTG Val	TGC Cys	CCG Pro	1226
TCC Ser 365	TCG Ser	GTG Val	CAG Gln	AGT Ser	GAC Asp 370	GAG Glu	AGC Ser	CTC Leu	gac Asp	CTC Leu 375	AGC Ser	ATC Ile	CAG Gln	AAC Asn	CGC Arg 380	1274
GGT Gly	GGT Gly	TCA Ser	GGC Gly	CTG Leu 385	GAG Glu	GCC Ala	GCC Ala	TAC Tyr	AGC Ser 390	ATC Ile	GTG Val	Ý] a ČCC	CTG Leu	GGC Gly 395	GAG Glu	1322
			400	ALG	Val	ura	PIO	405	cys	Pro	Ser	GAC Asp	Thr 410	Glu	Ile	1370
		415		G ₂ ,	1123	Cys	420	Arg	reu	Val	Val	GAG Glu 425	Lys	Ala	Ala	1418
TGG Trp	CTG Leu 430	CAG Gln	GCG Ala	CAG Gln	GIU	CAG Gln 435	Cys TGT	CAG Gln	GCC Ala	TGG Trp	GCC Ala 440	GGG Gly	GCC Ala	GCC Ala	CTG Leu	1466
GCA Ala 445	ATG Met	GTG Val	GAC Asp	AGT Ser	CCC Pro 450	GCC Ala	GTG Val	CAG Gln	CGC Arg	TTC Phe 455	CTG Leu	GTC Val	TCC Ser	CGG Arg	GTC Val 460	1514
ACC Thr	AGG Arg	TGC Cys		GAC Asp 465	GTG Val	TGG Trp	ATC Ile	CIA	TTC Phe 470	TCG Ser	ACT Thr	GTG Val	CAG Gln	GGG Gly 475	GTG Val	1562
GAG Glu	GTG Val	GGC Gly	CCA Pro 480	GCG Ala	CCG (Pro (CAG (Gln (GTA .	GAG Glu 485	GCC Ala	TTC Phe	AGC Ser	CTG Leu	GAG Glu 490	AGC Ser	TGC Cys	1610

FIGURE 1C

									CCA Pro							1658
									AAC Asn							1706
									CCC Pro							1754
									AGT Ser 550							1802
									CTC Leu							1850
									CGT Arg							1898
									GAG Glu							1946
									AGC Ser							1994
									CCG Pro 630			_				2042
									TGG Trp							2090
									CCC							2138
									GCC Ala							2186
GAG Glu 685	TTC Phe	CTC Leu	TTC Phe	TCC Ser	GTT Val 690	CCC Pro	GCG Ala	GGG	CCC	CCC Pro 695	GCG Ala	CAG Gln	TAC Tyr	TCG Ser	GTC Val 700	2234
									CTC Leu 710							2282
				Ala					CTC					Pro		2330

FIGURE 1D

PIO	GIY	735	Pro	GIY	Pro	Arg	740	Pro	Tyr	Leu	Ser	Ala 745	Asn	Ala	TCG Ser	2378
TCA Ser	TGG Trp 750	Leu	Pro	CAC His	TTG Leu	CCA Pro 755	GCC Ala	CAG Gln	CTG Leu	GAG Glu	GGC Gly 760	Thr	TGG Trp	GCC Ala	TGC Cys	2426
CCT Pro 765	Ala	TGT Cys	GCC Ala	CTG Leu	CGG Arg 770	Leu	CTT Leu	GCA Ala	GCC Ala	ACG Thr 775	GAA Glu	CAG Gln	CTC Leu	ACC Thr	GTG Val 780	2474
CTG Leu	CTG Leu	GGC	TTG Leu	AGG Arg 785	CCC Pro	AAC Asn	CCT Pro	GGA Gly	CTG Leu 790	CGG Arg	CTG Leu	CCT Pro	GGG Gly	CGC Arg 795	TAT Tyr	2522
GAG Glu	GTC Val	CGG Arg	GCA Ala 800	GAG Glu	GTG Val	GGC Gly	AAT Asn	GGC Gly 805	GTG Val	TCC Ser	AGG Arg	CAC His	AAC Asn 810	CTC Leu	TCC Ser	2570
TGC Cys	AGC Ser	TTT Phe 815	GAC Asp	GTG Val	GTC Val	TCC Ser	CCA Pro 820	GTG Val	GCT Ala	GGG Gly	CTG Leu	CGG Arg 825	GTC Val	ATC Ile	TAC Tyr	2618
CCT Pro	GCC Ala 830	CCC Pro	CGC Arg	GAC Asp	GGC Gly	CGC Arg 835	CTC Leu	TAC Tyr	GTG Val	CCC	ACC Thr 840	AAC Asn	GGC Gly	TCA Ser	GCC Ala	2666
TTG Leu 845	GTG Val	CTC Leu	CAG Gln	GTG Val	GAC Asp 850	TCT Ser	GGT Gly	GCC Ala	AAC Asn	GCC Ala 855	ACG Thr	GCC Ala	ACG Thr	GCT Ala	CGC Arg 860	2714
TGG Trp	CCT Pro	GGG Gly	GGC Gly	AGT Ser 865	GTC Val	AGC Ser	GCC Ala	CGC Arg	TTT Phe 870	GAG Glu	AAT Asn	GTC Val	TGC Cys	CCT Pro 875	GCC Ala	2762
CTG Leu	GTG Val	GCC Ala	ACC Thr 880	TTC Phe	GTG Val	CCC	GGC Gly	TGC Cys 885	CCC Pro	TGG Trp	GAG Glu	ACC Thr	AAC Asn 890	GAT Asp	ACC Thr	2810
CTG Leu	TTC Phe	TCA Ser 895	GTG Val	GTA Val	GCA Ala	CTG Leu	CCG Pro 900	TGG Trp	CTC Leu	AGT Ser	GAG Glu	GGG Gly 905	GAG Glu	CAC His	GTG Val	2858
GTG Val	GAC Asp 910	GTG Val	GTG Val	GTG Val	GAA Glu	AAC Asn 915	AGC Ser	GCC Ala	AGC Ser	CGG Arg	GCC Ala 920	AAC Asn	CTC Leu	AGC Ser	CTG Leu	2906
CGG Arg 925	GTG Val	ACG Thr	GCG Ala	GAG Glu	GAG Glu 930	CCC Pro	ATC Ile	TGT Cys	GGC Gly	CTC Leu 935	CGC Arg	GCC Ala	ACG Thr	CCC Pro	AGC Ser 940	2954
CCC Pro	GAG Glu	GCC Ala	CGT Arg	GTA Val 945	CTG Leu	CAG Gln	GGA Gly	GTC Val	CTA Leu 950	GTG Val	AGG Arg	TAC Tyr	AGC Ser	CCC Pro 955	GTG Val	3002
GTG Val	GAG Glu	GCC Ala	GGC Gly 960	TCG Ser	GAC Asp	ATG Met	GTC Val	TTC Phe 965	CGG Arg	TGG Trp	ACC Thr	ATC Ile	AAC Asn 970	GAC Asp	AAG Lys	3050

FIGURE 1E

مدف																
		975	5				980)	. Pne	e Asr	ı Val	985	Туг	Glr	AGC Ser	3098
	990)	•	,.	, Dec	995	Leu	Ing	AIA	Ser	100	His	: Val	Ser	AAC Asn	3146
100	5		••••	,.	101	0	IIII	val	GIU	101	Met 5	Asn	Arg	Met	CAG Gln 1020	3194
GGT Gly	' CTG	CAG Gln	GTC Val	Ser 102	T 11T	GTG Val	CCG Pro	GCC Ala	GTG Val 103	Leu	TCC Ser	CCC	AAT Asn	GCC Ala 103	ACG Thr 5	3242
CTA Leu	GCA Ala	CTG Leu	ACG Thr 104	*****	GJA GCC	GTG Val	CTG Leu	GTG Val 104	ASP	TCG Ser	GCC Ala	GTG Val	GAG Glu 105	Val	GCC Ala	3290
TTC Phe	CTG Leu	TGG Trp 105		TTT Phe	GGG Gly	GAT Asp	GGG Gly 106	GAG Glu O	CAG Gln	GCC Ala	CTC Leu	CAC His	Gln	TTC Phe	CAG Gln	3338
CCT Pro	CCG Pro 1070	~ y ~	AAC Asn	GAG Glu	TCC Ser	TTC Phe 1075	PTO	GTT Val	CCA Pro	GAC Asp	CCC Pro 108	Ser	GTG Val	GCC Ala	CAG Gln	3386
GTG Val 1089		GTG Val	GAG Glu	CAC His	AAT Asn 1090	val	ATG Met	CAC His	ACC Thr	TAC Tyr 109	Ala	GCC Ala	CCA Pro	GGT Gly	GAG Glu 1100	3434
TAC	CTC Leu	CTG Leu	ACC Thr	GTG Val 1105	Dea	GCA Ala	TCT Ser	AAT Asn	GCC Ala 1110	Phe	GAG Glu	AAC Asn	CTG Leu	ACG Thr 1115	Gln	3482
CAG Gln	GTG Val	CCT Pro	GTG Val 1120	2er	GTG Val	CGC Arg	GCC Ala	TCC Ser 1125	Leu	CCC Pro	TCC Ser	GTG Val	GCT Ala 1130	Val	GGT Gly	3530
GTG Val	AGT Ser	GAC Asp 1135	U 1 3	GTC Val	CTG Leu	GTG Val	GCC Ala 1140	GIĀ	CGG Arg	CCC Pro	GTC Val	ACC Thr 1145	Phe	TAC Tyr	CCG Pro	3578
CAC His	CCG Pro 1150		CCC Pro	TCG Ser	FIG	GGG Gly 1155	GTA	GTT Val	CTT Leu	TAC Tyr	ACG Thr 1160	Trp	GAC Asp	TTC Phe	GGG Gly	3626
GAC Asp 1165		TCC Ser	CCT Pro	AGT	CTG Leu 1170	Inr	CAG Gln	AGC Ser	GIU	CCG Pro 1175	Ala	GCC Ala	AAC Asn	His	ACC Thr 1180	3674
TAT Tyr	GCC Ala	TCG Ser	ar a	GGC Gly 1185	1111	TAC Tyr	CAC His	val .	CGC Arg 1190	CTG Leu	GAG Glu	GTC Val	Asn	AAC Asn 1195	ACG Thr	3722
GTG . Val	AGC Ser		GCG Ala 1200	nie .	GCC (Ala (CAG (Gln)	ALA .	GAT (Asp ' 1205	GTG (Val)	CGC Arg	GTC Val	Phe (GAG Glu 1210	GAG Glu	CTC Leu	3770

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FIGURE 1F

CGC GGA CTC AGC GTG Arg Gly Leu Ser Val 1215	Asp Met Ser Leu 1220	Ala Val Glu Gln (1225	Sly Ala Pro
GTG GTG GTC AGC GCC Val Val Val Ser Ala 1230	GCG GTG CAG ACG Ala Val Gln Thr 1235	GGC GAC AAC ATC A Gly Asp Asn Ile 1 1240	ACG TGG ACC 3866 Thr Trp Thr
TTC GAC ATG GGG GAC	GGC ACC GTG CTG	TCG GGC CCG GAG (GCA ACA GTG 3914
Phe Asp Met Gly Asp	Gly Thr Val Leu	Ser Gly Pro Glu 2	Ala Thr Val
1245	1250	1255	1260
GAG CAT GTG TAC CTG	Arg Ala Gln Asn	TGC ACA GTG ACC (GTG GGT GCG 3962
Glu His Val Tyr Leu		Cys Thr Val Thr 1	Val Gly Ala
126		1270	1275
GCC AGC CCC GCC GGC	CAC CTG GCC CGG	Ser Leu His Val	CTG GTC TTC 4010
Ala Ser Pro Ala Gly	His Leu Ala Arg		Leu Val Phe
1280	1285		1290
GTC CTG GAG GTG CTG Val Leu Glu Val Leu 1295	CGC GTT GAA CCC Arg Val Glu Pro 1300	GCC GCC TGC ATC Ala Ala Cys Ile 1305	CCC ACG CAG 4058 Pro Thr Gln
CCT GAC GCG CGG CTC Pro Asp Ala Arg Leu 1310	ACG GCC TAC GTC Thr Ala Tyr Val 1315	ACC GGG AAC CCG Thr Gly Asn Pro 1320	GCC CAC TAC 4106 Ala His Tyr
CTC TTC GAC TGG ACC	TTC GGG GAT GGC	TCC TCC AAC ACG	ACC GTG CGG 4154
Leu Phe Asp Trp Thr	Phe Gly Asp Gly	Ser Ser Asn Thr	Thr Val Arg
1325	1330	1335	1340
GGG TGC CCG ACG GTG	Thr His Asn Phe	ACG CGG AGC GGC	ACG TTC CCC 4202
Gly Cys Pro Thr Val		Thr Arg Ser Gly	Thr Phe Pro
134		1350	1355
CTG GCG CTG GTG CTG Leu Ala Leu Val Leu 1360	TCC AGC CGC GTG Ser Ser Arg Val	Asn Arg Ala His	TAC TTC ACC 4250 Tyr Phe Thr 1370
AGC ATC TGC GTG GAG	CCA GAG GTG GGC	AAC GTC ACC CTG	Gln Pro Glu
Ser Ile Cys Val Glu	Pro Glu Val Gly	Asn Val Thr Leu	
1375	1380	1385	
AGG CAG TTT GTG CAG Arg Gln Phe Val Glr 1390	CTC GGG GAC GAG Leu Gly Asp Glu 1395	GCC TGG CTG GTG Ala Trp Leu Val 1400	GCA TGT GCC 4346 Ala Cys Ala
TGG CCC CCG TTC CCC	TAC CGC TAC ACC	TGG GAC TTT GGC	ACC GAG GAA 4394
Trp Pro Pro Phe Pro	TYT ATG TYT THE	Trp Asp Phe Gly	Thr Glu Glu
1405	1410	1415	1420
GCC GCC CCC ACC CGT	g Ala Arg Gly Pro	GAG GTG ACG TTC	ATC TAC CGA 4442
Ala Ala Pro Thr Arg		Glu Val Thr Phe	Ile Tyr Arg
142		1430	1435
GAC CCA GGC TCC TATA Asp Pro Gly Ser Typ 1440	r CTT GTG ACA GTC r Leu Val Thr Val	. Thr Ala Ser Asn	AAC ATC TCT 4490 Asn Ile Ser 1450

FIGURE 1G

GCT GCC AAT GAC TCA GCC CTG GTG GAG GTG CAG GAG CCC GTG CTG GTC Ala Ala Asn Asp Ser Ala Leu Val Glu Val Glu Pro Val Leu Val 1455 1460 1465	4538
ACC AGC ATC AAG GTC AAT GGC TCC CTT GGG CTG GAG CTG CAG CAG CCG Thr Ser Ile Lys Val Asn Gly Ser Leu Gly Leu Glu Leu Gln Gln Pro 1470 1475 1480	4586
TAC CTG TTC TCT GCT GTG GGC CGT GGG CGC CCC GCC AGC TAC CTG TGG Tyr Leu Phe Ser Ala Val Gly Arg Gly Arg Pro Ala Ser Tyr Leu Trp 1485 1490 1495 1500	4634
GAT CTG GGG GAC GGT GGG TGG CTC GAG GGT CCG GAG GTC ACC CAC GCT Asp Leu Gly Asp Gly Gly Trp Leu Glu Gly Pro Glu Val Thr His Ala 1505 1510 1515	4682
TAC AAC AGC ACA GGT GAC TTC ACC GTT AGG GTG GCC GGC TGG AAT GAG Tyr Asn Ser Thr Gly Asp Phe Thr Val Arg Val Ala Gly Trp Asn Glu 1520 1530	4730
GTG AGC CGC AGC GAG GCC TGG CTC AAT GTG ACG GTG AAG CGG CGC GTG Val Ser Arg Ser Glu Ala Trp Leu Asn Val Thr Val Lys Arg Arg Val 1535 1545	4778
CGG GGG CTC GTC GTC AAT GCA AGC CGC ACG GTG GTG CCC CTG AAT GGG Arg Gly Leu Val Val Asn Ala Ser Arg Thr Val Val Pro Leu Asn Gly 1550 1555	4826
AGC GTG AGC TTC AGC ACG TCG CTG GAG GCC GGC AGT GAT GTG CGC TAT Ser Val Ser Phe Ser Thr Ser Leu Glu Ala Gly Ser Asp Val Arg Tyr 1565 1570 1580	4874
TCC TGG GTG CTC TGT GAC CGC TGC ACG CCC ATC CCT GGG GGT CCT ACC Ser Trp Val Leu Cys Asp Arg Cys Thr Pro Ile Pro Gly Gly Pro Thr 1585	. 4922
ATC TCT TAC ACC TTC CGC TCC GTG GGC ACC TTC AAT ATC ATC GTC ACG Ile Ser Tyr Thr Phe Arg Ser Val Gly Thr Phe Asn Ile Ile Val Thr 1600 1605	4970
GCT GAG AAC GAG GTG GGC TCC GCC CAG GAC AGC ATC TTC GTC TAT GTC Ala Glu Asn Glu Val Gly Ser Ala Gln Asp Ser Ile Phe Val Tyr Val 1615 1620 1625	5018
CTG CAG CTC ATA GAG GGG CTG CAG GTG GGC GGT GGC CGC TAC TTC Leu Gln Leu Ile Glu Gly Leu Gln Val Val Gly Gly Gly Arg Tyr Phe 1630 1635 1640	5066
CCC ACC AAC CAC ACG GTA CAG CTG CAG GCC GTG GTT AGG GAT GGC ACC Pro Thr Asn His Thr Val Gln Leu Gln Ala Val Val Arg Asp Gly Thr 1645 1650 1660	5114
AAC GTC TCC TAC AGC TGG ACT GCC TGG AGG GAC AGG GGC CCG GCC CTG ASN Val Ser Tyr Ser Trp Thr Ala Trp Arg Asp Arg Gly Pro Ala Leu 1665 1670 1675	5162
GCC GGC AGC GGC AAA GGC TTC TCG CTC ACC GTG CTC GAG GCC GGC ACC Ala Gly Ser Gly Lys Gly Phe Ser Leu Thr Val Leu Glu Ala Gly Thr 1680 1685	5210

FIGURE 1H

TAC CAT GTG CAG CTG Tyr His Val Gln Let 1695	G CGG GCC ACC Arg Ala Thr 170	' Asn Met Leu G	GC AGC GCC TGG GCC ly Ser Ala Trp Ala 1705	5258
GAC TGC ACC ATG GAG Asp Cys Thr Met Asi 1710	TTC GTG GAG Phe Val Glu 1715	Pro Val Gly T	GG CTG ATG GTG GCC rp Leu Met Val Ala 720	5306
GCC TCC CCG AAC CCA Ala Ser Pro Asn Pro 1725	GCT GCC GTC Ala Ala Val 1730	AAC ACA AGC G Asn Thr Ser V 1735	TC ACC CTC AGT GCC al Thr Leu Ser Ala 1740	5354
GAG CTG GCT GGT GGC Glu Leu Ala Gly Gly 174	' Ser Gly Val	GTA TAC ACT TO Val Tyr Thr T 1750	GG TCC TTG GAG GAG rp Ser Leu Glu Glu 1755	5402
GGG CTG AGC TGG GAG Gly Leu Ser Trp Glu 1760	ACC TCC GAG	CCA TTT ACC A Pro Phe Thr T 1765	CC CAT AGC TTC CCC hr His Ser Phe Pro 1770	5450
ACA CCC GGC CTG CAG Thr Pro Gly Leu His 1775	TTG GTC ACC Leu Val Thr 178	Met Thr Ala G	GG AAC CCG CTG GGC ly Asn Pro Leu Gly 1785	5498
TCA GCC AAC GCC ACC Ser Ala Asn Ala Thi 1790	GTG GAA GTG Val Glu Val 1795	Asp Val Gln V	TG CCT GTG AGT GGC al Pro Val Ser Gly 800	5546
CTC AGC ATC AGG GCC Leu Ser Ile Arg Ala 1805	: AGC GAG CCC Ser Glu Pro 1810	GGA GGC AGC T Gly Gly Ser P 1815	TC GTG GCG GCC GGG he Val Ala Ala Gly 1820	5594
TCC TCT GTG CCC TTT Ser Ser Val Pro Phe 182	Trp Gly Gln	CTG GCC ACG G Leu Ala Thr G 1830	GC ACC AAT GTG AGC ly Thr Asn Val Ser 1835	5642
TGG TGC TGG GCT GTC Trp Cys Trp Ala Val 1840	ccc GGC GGC Pro Gly Gly	AGC AGC AAG C Ser Ser Lys A 1845	GT GGC CCT CAT GTC rg Gly Pro His Val 1850	5690
ACC ATG GTC TTC CCC Thr Met Val Phe Pro 1855	GAT GCT GGC Asp Ala Gly 186	Thr Phe Ser I.	TC CGG CTC AAT GCC le Arg Leu Asn Ala 1865	5738
TCC AAC GCA GTC AGG Ser Asn Ala Val Ser 1870	TGG GTC TCA Trp Val Ser 1875	Ala Thr Tyr A	AC CTC ACG GCG GAG sn Leu Thr Ala Glu 880	5786
GAG CCC ATC GTG GGC Glu Pro Ile Val Gly 1885	CTG GTG CTG Leu Val Leu 1890	TGG GCC AGC AGT Trp Ala Ser Ser 1895	GC AAG GTG GTG GCG er Lys Val Val Ala 1900	5834
CCC GGG CAG CTG GTG Pro Gly Gln Leu Val	. His Phe Gln	ATC CTG CTG G Ile Leu Leu A 1910	CT GCC GGC TCA GCT la Ala Gly Ser Ala 1915	5882
GTC ACC TTC CGC CTC Val Thr Phe Arg Lev 1920	CAG GTC GGC	GGG GCC AAC CGly Ala Asn P.	CC GAG GTG CTC CCC ro Glu Val Leu Pro 1930	5930

FIGURE 11

GGG Gly	CCC Pro	CGT Arg 1935	Phe	TCC Ser	CAC His	AGC Ser	TTC Phe 1940	Pro	CGC Arg	GTC Val	GGA Gly	GAC Asp 1945	His	GTG Val	GTG Val	5978
AGC Ser	GTG Val 1950	Arg	GGC Gly	AAA Lys	AAC Asn	CAC His 1955	Val	AGC Ser	TGG Trp	GCC Ala	CAG Gln 1960	Ala	CAG Gln	GTG Val	CGC Arg	6026
	Val	GTG Val				Val					Val					6074
GAG Glu	CCT Pro	GGC Gly	ATC Ile	GCC Ala 1985	Thr	GJ Y GGC	ACT Thr	GAG Glu	AGG Arg 1990	Asn	TTC Phe	ACA Thr	GCC Ala	CGC Arg 1995	Val	6122
CAG . Gln	CGC Arg	GGC Gly	TCT Ser 2000	Arg	GTC Val	GCC Ala	TAC Tyr	GCC Ala 2005	Lib	TAC Tyr	TTC Phe	TCG Ser	CTG Leu 2010	Gln	AAG Lys	6170
GTC Val	CAG Gln	GGC Gly 2015	Asp	TCG Ser	CTG Leu	GTC Val	ATC Ile 2020	Leu	TCG Ser	GGC Gly	CGC Arg	GAC Asp 2025	Val	ACC Thr	TAC Tyr	6218
ACG Thr	CCC Pro 2030	GTG Val	GCC Ala	GCG Ala	GGG Gly	CTG Leu 2035	Leu	GAG Glu	ATC Ile	CAG Gln	GTG Val 2040	Arg	GCC Ala	TTC Phe	AAC Asn	62 <u>-</u> 66
GCC Ala 2045	Leu	Gly	AGT Ser	GAG Glu	AAC Asn 2050	Arg	ACG Thr	CTG Leu	GTG Val	CTG Leu 2059	Glu	GTT Val	CAG Gln	GAC Asp	GCC Ala 2060	6314
GTC Val	CAG Gln	TAT Tyr	GTG Val	GCC Ala 2065	Leu	CAG Gln	AGC Ser	GGC	CCC Pro 207	Cys	TTC Phe	ACC Thr	AAC Asn	CGC Arg 207	Ser	6362
GCG Ala	CAG Gln	TTT Phe	GAG Glu 2080	Ala	GCC Ala	ACC Thr	AGC Ser	CCC Pro 208	Ser	CCC	CGG Arg	CGT Arg	GTG Val 209	Ala	TAC Tyr	6410
CAC His	TGG Trp	GAC Asp 2099	Phe	GGG	gat Asp	GCG	TCG Ser 210	Pro	GGG	CAG Gln	GAC Asp	ACA Thr 210	Asp	GAG Glu	CCC Pro	6458
AGG Arg	GCC Ala 211	GAG Glu O	CAC His	TCC Ser	TAC Tyr	CTG Leu 211	Arg	CCT	GGG Gly	GAC Asp	TAC Tyr 212	Arg	GTG Val	CAG Gln	GTG Val	6506
AAC Asn 212	Ala	TCC Ser	AAC Asn	CTG Leu	GTG Val 213	Ser	TTC	TTC Phe	GTG Val	GCG Ala 213	Gln	GCC Ala	ACG Thr	GTG Val	ACC Thr 2140	6554
GTC Val	CAG Gln	GTG Val	CTG Leu	GCC Ala 214	CAa	CGG Arg	GAG Glu	CCG Pro	GAG Glu 215	Val	GAC Asp	GTG Val	GTC Val	CTG Leu 215	Pro	6602
CTG Leu	CAG Gln	GTG Val	CTG Leu 216	Met	CGG Arg	CGA Arg	TCA Ser	CAG Gln 216	Arg	AAC Asn	TAC	TTG Leu	GAG Glu 217	Ala	CAC His	6650



FIGURE 1J

Val Asp Leu Arg 2175	GAC TGC GTC ACC Asp Cys Val Thr 2180	Tyr Gln Thr Glu	Tyr Arg Trp Glu 2185	6698
GTG TAT CGC ACC Val Tyr Arg Thr 2190	GCC AGC TGC CAG Ala Ser Cys Gln 2195	CGG CCG GGG CGC Arg Pro Gly Arg 2200	Pro Ala Arg Val	6746
GCC CTG CCC GGC Ala Leu Pro Gly 2205	GTG GAC GTG AGC Val Asp Val Ser 2210	CGG CCT CGG CTG Arg Pro Arg Leu 2215	GTG CTG CCG CGG Val Leu Pro Arg 2220	6794
CTG GCG CTG CCT Leu Ala Leu Pro	GTG GGG CAC TAC Val Gly His Tyr 2225	TGC TTT GTG TTT Cys Phe Val Phe 2230	GTC GTG TCA TTT Val Val Ser Phe 2235	6842
	CTG ACA CAG AGC Leu Thr Gln Ser 0			6890
	GTG CCC ATC ATT Val Pro Ile Ile 2260	Glu Gly Gly Ser		6938
TCA GAC ACA CGG Ser Asp Thr Arg 2270	GAC CTG GTG CTG Asp Leu Val Leu 2275	GAT GGG AGC GAG Asp Gly Ser Glu 2280	Ser Tyr Asp Pro	6986
	GGC GAC CAG ACG Gly Asp Gln Thr 2290			7034
	CAG AGG GAG GCT Gln Arg Glu Ala 2305			7082
CCC CGC GGG AGC Pro Arg Gly Ser 232	AGC ACG GTC ACC Ser Thr Val Thr 0	ATT CCA CGG GAG Ile Pro Arg Glu 2325	CGG CTG GCG GCT Arg Leu Ala Ala 2330	7130
	ACC TTC AGC CTG Thr Phe Ser Leu 234	Thr Val Trp Lys		7178
	AAC CAG ACG GTG Asn Gln Thr Val 2355		Gly Arg Val Pro	7226
	GAG TGT GTG TCC Glu Cys Val Ser 2370			7274
	•	יייים פאם ככר רכר	ጥርድ ርጥር ልልጥ ጥርድ	7322
	TCC TAC GTG TAC Ser Tyr Val Tyr 2385			

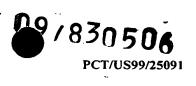


FIGURE 1K

AAG ACG CTG Lys Thr Leu 2415	GTG CTG GAT G Val Leu Asp G	GAG ACC ACC ACC ACC ACC ACC ACC ACC ACC	ACA TCC ACG Thr Ser Thr	GGC AGT GCA Gly Ser Ala 2425	GGC 7418 Gly
ATG CGA CTG Met Arg Leu 2430	GTG CTG CGG C Val Leu Arg A	CGG GGC GTG (Arg Gly Val 2435	CTG CGG GAC Leu Arg Asp 2440	Gly Glu Gly	TAC 7466 Tyr
ACC TTC ACG Thr Phe Thr 2445	CTC ACG GTG C Leu Thr Val I 2450	CTG GGC CGC Ceu Gly Arg	TCT GGC GAG Ser Gly Glu 2455	Glu Glu Gly	TGC 7514 Cys 2460
GCC TCC ATC Ala Ser Ile	CGC CTG TCC C Arg Leu Ser E 2465	Pro Asn Arg	CCG CCG CTG Pro Pro Leu 2470	GGG GGC TCT Gly Gly Ser 2475	Cys
CGC CTC TTC Arg Leu Phe	CCA CTG GGC C Pro Leu Gly 1 2480	GCT GTG CAC Ala Val His 2485	Ala Leu Thr	ACC AAG GTG Thr Lys Val 2490	CAC 7610 His
TTC GAA TGC Phe Glu Cys 249	ACG GGC TGG (Thr Gly Trp i	CAT GAC GCG His Asp Ala 2500	GAG GAT GCT Glu Asp Ala	GGC GCC CCG Gly Ala Pro 2505	CTG 7658 Leu
GTG TAC GCC Val Tyr Ala 2510	CTG CTG CTG C Leu Leu Leu !	CGG CGC TGT Arg Arg Cys 2515	CGC CAG GGC Arg Gln Gly 252	His Cys Glu	GAG 7706 Glu
TTC TGT GTC Phe Cys Val 2525	TAC AAG GGC A Tyr Lys Gly 9 2530	AGC CTC TCC Ser Leu Ser	AGC TAC GGA Ser Tyr Gly 2535	GCC GTG CTG Ala Val Leu	CCC 7754 Pro 2540
CCG GGT TTC Pro Gly Phe	AGG CCA CAC 1 Arg Pro His 2 2545	TTC GAG GTG Phe Glu Val	GGC CTG GCC Gly Leu Ala 2550	GTG GTG GTG Val Val Val 2555	Gln
GAC CAG CTG Asp Gln Leu	GGA GCC GCT (Gly Ala Ala) 2560	GTG GTC GCC Val Val Ala 2565	Leu Asn Arg	TCT TTG GCC Ser Leu Ala 2570	ATC 7850 Ile
ACC CTC CCA Thr Leu Pro 257	GAG CCC AAC (Glu Pro Asn (5	GGC AGC GCA Gly Ser Ala 2580	ACG GGG CTC Thr Gly Leu	ACA GTC TGG Thr Val Trp 2585	CTG 7898 Leu
CAC GGG CTC His Gly Leu 2590	ACC GCT AGT	GTG CTC CCA Val Leu Pro 2595	GGG CTG CTG Gly Leu Leu 260	Arg Gln Ala	GAT 7946 Asp
CCC CAG CAC Pro Gln His 2605	GTC ATC GAG Val Ile Glu 2610	Tyr Ser Leu	GCC CTG GTC Ala Leu Val 2615	ACC GTG CTG Thr Val Leu	AAC 7994 Asn 2620
GAG TAC GAG Glu Tyr Glu	CGG GCC CTG Arg Ala Leu 2625	GAC GTG GCG Asp Val Ala	GCA GAG CCC Ala Glu Pro 2630	: AAG CAC GAG Lys His Glu 263	Arg
CAG CAC CGA Gln His Arg	GCC CAG ATA Ala Gln Ile 2640	CGC AAG AAC Arg Lys Asn 264	Ile Thr Glu	ACT CTG GTG Thr Leu Val 2650	TCC 8090 Ser

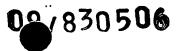


FIGURE 1L

•															CTC.		8138
Leu	Arg	Val 2655	His	Thr	vai .	ASP	2660	116		· · · ·		GCT Ala 2665					0130
Ala	Gln 2670	Cys)	Met	GIY	Pro	2675	ALG	Gru	200		2680			•			8186
Lys 2689	Gln 5	Thr	Leu	His	2690	rea	GIG	AIG	1100	269	5	ATC Ile			270	0	8234
Glu	Thr	Thr	Ala	2705	inr	var	TIII	FIU	271	0		GGA Gly		2715	5		8282
CTC Leu	AAC Asn	ATC Ile	ACA Thr 272	GIA	gac Asp	CTC Leu	ATC Ile	CAC His 272		GCC	AGC Ser	TCG Ser	GAC Asp 2730	GTG Val	CGC Arg	3	8330
GCA Ala	CCA Pro	CAG Gln 273	Pro	TCA Ser	GAG Glu	CTG Leu	GGA Gly 274	VIC	GAG Glu	TCA Ser	CCA Pro	TCT Ser 274		ATG Met	GTY Va.	G 1	8378
GCG Ala	TCC Ser 275	Gln	GCC	TAC Tyr	AAC Asn	CTG Leu 275	1111	TC1	GCC Ala	CTC	ATC Met 27	G CGC L Arg 60	ATC Ile	CTC	AT Me	G t	8426
CGC Arg	g Se	CGC Arg	GTG Val	CTC Leu	AAC Asn 277	GIU	GAG Glu	CCC	CTY o Le	G ACC		G GCG	GCC	GAG Glu	GA G1 27	.G .u .80	8474
		G GCC	CAC a Glr	GGC 1 Gly 278	Lys	CGC Arg	TCC Ser	G GA	ħ FI	G CG o Ar 90	g AG g Se	C CTC	CTC Lev	TGC Cys 279	T T T T T T T T T T T T T T T T T T T	AT /I	8522
GG G1	y Gl	y Al	c cci a Pro 28	5 GT 3	CCT Pro	r GGC o Gly	Cy:	2 UI	C TI s Ph	C TC le Se	C AT	e Pr	C GAC o Glu 28:	GCT Ala LO	r Ti	rc he	8570
AG Se	sc GG	y Al			C AAG	C CTO	u se	T GA r As 20	C GI	NG GI	1 61 6 Ci	G CT In Le 28	C AT u Il 25	c TT e Ph	T C'e L	an G	8618
G1 Va	ıl As			T CC	C TT o Ph	e PI	C TT o Ph 35	T GO	SC TI	AT AT		GC AA er As 840	C TA	C AC	C G	TC al	8666
Se			NG GI Ys Va	G GC	a se	G AT er Me	G GC	A T	TC C he G		CA C hr G 855	AG GC ln Al	C GG La Gl	y Al	c c La G	AG In 860	8714
		CC A	rc Gi le Gi	Lu AI	G C1 rg Le	rg go eu Al	CC TY	CA G er G	14 2	GC G rg A 870	CC A la I	TC AC	CC GI	G AL	AG (ys \ 875	etg Val	8762
C P	CC A	AC A sn A	sn S	CG Gi er As 880	AC TY sp T:	GG GG	CT G	10 -	GG (Arg (2885	GC C	AC C	GC A	GC TY er Se 2	CC G er A 890	CC i	AAC Asn	8810

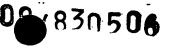


FIGURE 1M

Ser	Ala	Asn 2895	Ser	Val	Val	Val	Gln 2900	Pro	Gln	Ala	Ser	2905	GIĀ	Ala	Val	8858
	Thr 2910	Leu	Asp	Ser	Ser	Asn 2915	Pro	Ala	Ala	GIA	Leu 2920	His	Leu	GIn	Leu	8906
AAC Asn 2925	Tyr	ACG Thr	CTG Leu	CTG Leu	GAC Asp 2930	Gly	CAC His	TAC Tyr	Leu	TCT Ser 2935	Glu	GAA Glu	CCT Pro	GAG Glu	CCC Pro 2940	8954
TAC Tyr	CTG Leu	GCA Ala	GTC Val	TAC Tyr 2945	Leu	CAC His	TCG Ser	GAG Glu	CCC Pro 2950	Arg	CCC Pro	AAT Asn	GAG Glu	CAC His 2955	Asn	9002
TGC Cys	TCG Ser	GCT Ala	AGC Ser 2960	Arg	AGG Arg	ATC Ile	CGC Arg	CCA Pro 2965	Glu	TCA Ser	CTC Leu	CAG Gln	GGT Gly 2970	ATA	GAC Asp	9050
CAC His	CGG Arg	CCC Pro 2975	Tyr	ACC Thr	TTC Phe	TTC Phe	ATT Ile 2980	Ser	CCG Pro	GGG Gly	AGC Ser	AGA Arg 2985	ASP.	CCA Pro	GCG Ala	9098
GGG Gly	AGT Ser 299	TYI	CAT His	CTG Leu	AAC Asn	CTC Leu 2999	Ser	AGC Ser	CAC His	TTC Phe	CGC Arg 300	TGG Trp 0	TCG Ser	GCG Ala	CTG Leu	9146
CAG Gln 300	Val	TCC Ser	GTG Val	G1A GCC	CTG Leu 301	Tyr	ACG Thr	TCC Ser	CTG Leu	TGC Cys 301	Gln	TAC Tyr	TTC Phe	AGC Ser	GAG Glu 3020	9194
GAG Glu	GAC Asp	ATG Met	GTG Val	TGG Trp 302	Arg	ACA Thr	GAG Glu	GGG Gly	CTG Leu 303	Leu	CCC	CTG Leu	GAG Glu	GAG Glu 303	THE	9242
TCG Ser	CCC	CGC	CAG Gln 304	Ala	GTC Val	TGC Cys	CTC Leu	ACC Thr 304	Arg	CAC His	CTC	ACC	GCC Ala 305	Pne	GGC Gly	9290
GCC Ala	AGC Ser	CTC Leu 305	Phe	GTG Val	CCC	CCA Pro	AGC Ser 306	His	GTC Val	CGC Arg	TTT	GTG Val 306	_Pne	CCT Pro	GAG Glu	9338
CCG	ACA Thi	: Ala	GAT Asp	GTA Val	AAC Asn	TAC Tyr 307	. Ile	GTC Val	: ATG . Met	CTG Leu	ACA Thr 308	CAR	GCT Ala	GTG Val	TGC Cys	9386
CTG Leu 308	[Val	ACC Thr	TAC	ATG Met	GTC Val	Met	GCC Ala	GCC	ATC	CTG Leu 309	HIS	: AAG : Lys	CTC Lev	GAC L As	CAG Gln 3100	9434
TTC	G GA'	r GCC	AGC A Ser	CGC Arg	i G17	CGC Arg	GCC Ala	ATC	C CCT Pro 311) PD6	TG!	r GGC	G CAC	3 CGC 3 Arg 31	G GGC G Gly 15	9482
CG(Ar	TT g Ph	C AAG e Ly:	3 TAC 5 Ty: 31:	r Gli	S ATC	CTC	C GTC	C AAG L Ly: 31	s Thi	A GGG	TGG	G GGG p Gly	CGC Arg 31	9 91	C TCA y Ser	9530

FIGURE 1N

Gly Thr Thr	Ala His Val G 5	ly Ile Met Leu 3140	TAT GGG GTG GA Tyr Gly Val As 3145	p Ser Arg
Ser Gly His 3150	Arg His Leu A	sp Gly Asp Arg 155	GCC TTC CAC CG Ala Phe His Ar 3160	g Asn Ser
CTG GAC ATC Leu Asp Ile 3165	TTC CGG ATC G Phe Arg Ile A 3170	CC ACC CCG CAC la Thr Pro His	AGC CTG GGT AG Ser Leu Gly Se 3175	C GTG TGG 9674 r Val Trp 3180
AAG ATC CGA Lys Ile Arg	GTG TGG CAC G Val Trp His A: 3185	AC AAC AAA GGG sp Asn Lys Gly 319	CTC AGC CCT GC Leu Ser Pro Al 0	C TGG TTC 9722 a Trp Phe 3195
CTG CAG CAC Leu Gln His	GTC ATC GTC AG Val Ile Val Ag 3200	GG GAC CTG CAG GG Asp Leu Gln 3205	ACG GCA CGC AG Thr Ala Arg Se 32	r Ala Phe
TTC CTG GTC Phe Leu Val 321	Asn Asp Trp L	TT TCG GTG GAG Eu Ser Val Glu 3220	ACG GAG GCC AAG Thr Glu Ala Ass 3225	C GGG GGC 9818 n Gly Gly
CTG GTG GAG Leu Val Glu 3230	Lys Glu Val Le	NG GCC GCG AGC eu Ala Ala Ser 235	GAC GCA GCC CT Asp Ala Ala Le 3240	T TTG CGC 9866 u Leu Arg
TTC CGG CGC Phe Arg Arg 3245	CTG CTG GTG GC Leu Leu Val Al 3250	CT GAG CTG CAG La Glu Leu Gln	CGT GGC TTC TT Arg Gly Phe Pho 3255	T GAC AAG 9914 e Asp Lys 3260
CAC ATC TGG His Ile Trp	CTC TCC ATA TO Leu Ser Ile To 3265	GG GAC CGG CCG TP Asp Arg Pro 327	CCT CGT AGC CG Pro Arg Ser Ar 0	T TTC ACT 9962 g Phe Thr 3275
CGC ATC CAG Arg Ile Gln	AGG GCC ACC TO Arg Ala Thr Cy 3280	SC TGC GTT CTC 'S Cys Val Leu 3285	CTC ATC TGC CTC Leu Ile Cys Let 32	u Phe Leu
GGC GCC AAC Gly Ala Asn 3295	Ala Val Trp Ty	AC GGG GCT GTT YT Gly Ala Val 3300	GGC GAC TCT GCC Gly Asp Ser Ala 3305	C TAC AGC 10058 a Tyr Ser
ACG GGG CAT Thr Gly His 3310	Val Ser Arg Le	NG AGC CCG CTG EU Ser Pro Leu 115	AGC GTC GAC ACC Ser Val Asp The 3320	A GTC GCT 10106 r Val Ala
GTT GGC CTG Val Gly Leu 3325	GTG TCC AGC GT Val Ser Ser Va 3330	NG GTT GTC TAT	CCC GTC TAC CTO Pro Val Tyr Let 3335	G GCC ATC 10154 u Ala Ile 3340
CTT TTT CTC Leu Phe Leu	TTC CGG ATG TO Phe Arg Met Se 3345	CC CGG AGC AAG er Arg Ser Lys 335	GTG GCT GGG AG Val Ala Gly Se: 0	C CCG AGC 10202 r Pro Ser 3355
CCC ACA CCT Pro Thr Pro	GCC GGG CAG CA Ala Gly Gln Gl 3360	AG GTG CTG GAC IN Val Leu Asp 3365	ATC GAC AGC TGG Ile Asp Ser Cy: 33	s Leu Asp

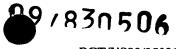


FIGURE 10

TCG TCC GTG CTG C Ser Ser Val Leu A 3375	AC AGC TCC TTC sp Ser Ser Phe 3380	Leu Thr Phe Ser	GGC CTC CAC GCT Gly Leu His Ala 3385 .	10298
GAG GCC TTT GTT G Glu Ala Phe Val G 3390			Leu Asp Asp Ser	10346
AAG AGT CTG GTG T Lys Ser Leu Val C 3405				10394
GAC CTG CTC AGT G Asp Leu Leu Ser A				10442
GCA CGG GGC CAG G Ala Arg Gly Gln A 3440	CG GGC CAT GGG la Gly His Gly	CTG GGC CCA GAG Leu Gly Pro Glu 3445	GAG GAC GGC TTC Glu Asp Gly Phe 3450	10490
TCC CTG GCC AGC C Ser Leu Ala Ser F 3455		Ala Lys Ser Phe		10538
GAA GAC CTG ATC C Glu Asp Leu Ile G 3470			Ser Ser Pro Ala	10586
CCT ACC CAA GAC A Pro Thr Gln Asp T 3485				10634
AGC ACT CCT GGG G Ser Thr Pro Gly G				10682
GAG CTG GGG CCA C Glu Leu Gly Pro E 3520				10730
GCG AGG CTG TCC A Ala Arg Leu Ser A 3535	= -	Val Glu Gly Leu		10778
			3343	
CTG CCG GCC TGG T Leu Pro Ala Trp C 3550		GCC CAC GGG CTC	AGC CTG CTC CTG Ser Leu Leu Leu	10826
Leu Pro Ala Trp (cys Ala Ser Leu 3555 GTG GCT GTC TCA	GCC CAC GGG CTC Ala His Gly Leu 356 GGG TGG GTG GGT	AGC CTG CTC CTG Ser Leu Leu Leu 0	10874
GTG GCT GTG GCT CVal Ala Val Ala Val Ala Val Ala Val Ala Val CCG GGC GTG AGT CPro Gly Val Ser Val Company val Ser Val Company val Ser Val Company val	cys Ala Ser Leu 3555 GTG GCT GTC TCA Val Ala Val Ser 3570 GTT GCG TGG CTC	GCC CAC GGG CTC Ala His Gly Leu 356 GGG TGG GTG GGT Gly Trp Val Gly 3575 CTG TCC AGC AGC	AGC CTG CTC CTG Ser Leu Leu Leu 0 GCG AGC TTC CCC Ala Ser Phe Pro 3580 GCC AGC TTC CTG	10874

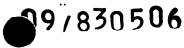


FIGURE 1P

TAC TTC TCA Tyr Phe Ser 3615	Leu Val Ala Lys	CGG CTG CAC CCC Arg Leu His Pro 3620	G GAT GAA GAT GAC D Asp Glu Asp Asp 3625	ACC 11018 Thr
		Thr Pro Val Se	C GCA CGT GTG CCC r Ala Arg Val Pro 3640	
			G GCC AAG GAA GAA u Ala Lys Glu Glu 55	
			G AGC CTC CTG GTG g Ser Leu Leu Val 3675	Tyr
			C TAT GGG GAT GCC r Tyr Gly Asp Ala 3690	
	His Ala Tyr Arg		C ATC AAG CAG GAG a Ile Lys Gln Glu 3705	
		Ile Thr Arg Se	T GAG GAG CTC TGG r Glu Glu Leu Trp 3720	
			C GGG AAC CAG TCC s Gly Asn Gln Ser 35	
			G CGG CTG CAG GAA l Arg Leu Gln Glu 3755	Ala
			C ACG TGC TCG GCC s Thr Cys Ser Ala 3770	
	Ser Thr Ser Asp		C TGG GAG AGT CCT y Trp Glu Ser Pro 3785	
		Tyr Ser Ala Pr	G GAT CTG CTG GGG o Asp Leu Leu Gly 3800	
			C GGG GGC TAC GTG r Gly Gly Tyr Val 15	
			C CGG CTG CGC TTC p Arg Leu Arg Phe 3839	Leu
CAG CTG CAC Gln Leu His	AAC TGG CTG GAC Asn Trp Leu Asr 3840	AAC AGG AGC CG Asn Arg Ser Ar 3845	c GCT GTG TTC CTG g Ala Val Phe Leu 3850	GAG 11690 Glu



FIGURE 1Q

CTC Leu	ACG Thr	CGC Arg 385	LAL	AGC Ser	CCG Pro	GCC Ala	GTG Val 386	Gly	CTG Leu	CAC His	GCC Ala	GCC Ala 386	Val	ACG Thr	CTG Leu	11738
CGC Arg	CTC Leu 387	GIU	TTC Phe	CCG Pro	GCG Ala	GCC Ala 387	Gly	CGC Arg	GCC Ala	CTG Leu	GCC Ala 388	Ala	CTC Leu	AGC Ser	GTC Val	11786
CGC Arg 388	Pro	TTT Phe	GCG Ala	CTG Leu	CGC Arg 389	CGC Arg 0	CTC Leu	AGC Ser	GCG Ala	GGC Gly 389	Leu	TCG Ser	CTG Leu	CCT Pro	CTG Leu 3900	11834
Leu	Thr	Ser	Val	390	Leu 5	CTG Leu	Leu	Phe	Ala 391	Val 0	His	Phe	Ala	Val 391	Ala 5	11882
GIU	YIT	Arg	392	O TIP	His	AGG Arg	Glu	Gly 3929	Arg 5	Trp	Arg	Val	Leu 3930	Arg)	Leu	11930
GIY	AIA	393	Ala 5	Arg	Trp	CTG Leu	3940	Val	Ala	Leu	Thr	Ala 3945	Ala	Thr	Ala	11978
CTG Leu	GTA Val 3950	Arg	CTC Leu	GCC Ala	CAG Gln	CTG Leu 3955	Gly	GCC Ala	GCT Ala	GAC Asp	CGC Arg 3960	Gln	TGG Trp	ACC Thr	CGT Arg	12026
TTC Phe 3965	Val	CGC Arg	GGC Gly	CGC Arg	CCG Pro 3970	CGC Arg	CGC Arg	TTC Phe	ACT Thr	AGC Ser 3975	Phe	GAC Asp	CAG Gln	GTG Val	GCG Ala 3980	12074
CAG Gln	CTG Leu	AGC Ser	TCC Ser	GCA Ala 3985	Ala	CGT Arg	GGC Gly	CTG Leu	GCG Ala 3990	Ala	TCG Ser	CTG Leu	CTC Leu	TTC Phe 3995	Leu	12122
CTT Leu	TTG Leu	GTC Val	AAG Lys 4000	Ala	GCC Ala	CAG Gln	CAG Gln	CTA Leu 4005	Arg	TTC Phe	GTG Val	CGC Arg	CAG Gln 4010	Trp	TCC Ser	12170
GTC Val	TTT Phe	GGC Gly 4015	Lys	ACA Thr	TTA Leu	TGC Cys	CGA Arg 4020	Ala	CTG Leu	CCA Pro	GAG Glu	CTC Leu 4025	Leu	GGG Gly	GTC Val	12218
ACC Thr	TTG Leu 4030	Gly	CTG Leu	GTG Val	GTG Val	CTC Leu 4035	Gly	GTA Val	GCC Ala	Tyr	GCC Ala 4040	Gln	CTG	GCC Ala	ATC Ile	12266
CTG Leu 4045	Leu	GTG Val	TCT Ser	TCC Ser	TGT Cys 4050	GTG Val	GAC Asp	TCC Ser	CTC Leu	TGG Trp 4055	Ser	GTG Val	GCC Ala	CAG Gln	GCC Ala 4060	12314
CTG Leu	TTG Leu	GTG Val	CTG Leu	TGC Cys 4065	Pro	GGG Gly	ACT Thr	GGG Gly	CTC Leu 4070	Ser	ACC Thr	CTG Leu	TGT Cys	CCT Pro 4075	Ala	12362
GAG Glu	TCC Ser	TGG Trp	CAC His 4080	Leu	TCA Ser	CCC Pro	Leu	CTG Leu 4085	Cys	GTG Val	GGG Gly	Leu	TGG Trp 4090	Ala	CTG Leu	12410



FIGURE 1R

CGG CTG TGG C Arg Leu Trp C 4095	GGC GCC CTA Gly Ala Leu	CGG CTG GG Arg Leu G 4100	GG GCT GTT	ATT CTC CGC Ile Leu Arg 4105	TGG CGC Trp Arg	12458
TAC CAC GCC T Tyr His Ala I 4110	TTG CGT GGA Leu Arg Gly	GAG CTG TA Glu Leu Ta 4115	AC CGG CCG	GCC TGG GAG Ala Trp Glu 4120	CCC CAG Pro Gln	12506
GAC TAC GAG A Asp Tyr Glu M 4125	ATG GTG GAG Met Val Glu 4130	Leu Phe Le	TG CGC AGG eu Arg Arg 4135	Leu Arg Leu	TGG ATG Trp Met 4140	12554
GGC CTC AGC A Gly Leu Ser L	AAG GTC AAG Lys Val Lys 4145	GAG TTC CO	GC CAC AAA rg His Lys 4150	GTC CGC TTT Val Arg Phe	GAA GGG Glu Gly 4155	12602
ATG GAG CCG C Met Glu Pro L	CTG CCC TCT Leu Pro Ser 1160	Arg Ser Se	CC AGG GGC er Arg Gly 165	TCC AAG GTA Ser Lys Val 4170	Ser Pro	12650
GAT GTG CCC C Asp Val Pro P 4175	CCA CCC AGC Pro Pro Ser	GCT GGC TO Ala Gly So 4180	CC GAT GCC er Asp Ala	TCG CAC CCC Ser His Pro 4185	TCC ACC Ser Thr	12698
TCC TCC AGC C Ser Ser Ser G 4190	Sln Leu Asp	GGG CTG AG Gly Leu So 4195	GC GTG AGC er Val Ser	CTG GGC CGG Leu Gly Arg 4200	CTG GGG Leu Gly	12746
ACA AGG TGT G Thr Arg Cys G 4205	GAG CCT GAG Glu Pro Glu 4210	Pro Ser A	GC CTC CAA rg Leu Gln 4215	Ala Val Phe	GAG GCC Glu Ala 4220	12794
CTG CTC ACC C Leu Leu Thr G	CAG TTT GAC Gln Phe Asp 4225	CGA CTC AL Arg Leu As	AC CAG GCC sn Gln Ala 4230	ACA GAG GAC Thr Glu Asp	GTC TAC Val Tyr 4235	12842
CAG CTG GAG C Gln Leu Glu G 4	CAG CAG CTG Gln Gln Leu 1240	His Ser Le	TG CAA GGC eu Gln Gly 245	CGC AGG AGC Arg Arg Ser 4250	Ser Arg	12890
GCG CCC GCC G Ala Pro Ala G 4255	GGA TCT TCC Gly Ser Ser	CGT GGC CG Arg Gly Pr 4260	CA TCC CCG ro Ser Pro	GGC CTG CGG Gly Leu Arg 4265	CCA GCA Pro Ala	12938
CTG CCC AGC C Leu Pro Ser A 4270	urg Leu Ala	CGG GCC AG Arg Ala Se 4275	GT CGG GGT er Arg Gly	GTG GAC CTG Val Asp Leu 4280	GCC ACT Ala Thr	12986
GGC CCC AGC A Gly Pro Ser A 4285	AGG ACA CCC Arg Thr Pro 4290	Leu Arg A	CC AAG AAC la Lys Asn 4295	Lys Val His	CCC AGC Pro Ser 4300	13034
AGC ACT TAGTO	CCTCCT TCCTG	GCGGG GGTY	GGGCCGT GGA	GTCGGAG TGGA	CACCGC	13090
TCAGTATTAC TT	TTCTGCCGC TG	TCAAGGCC (GAGGGCCAGG	CAGAATGGCT C	CACGTAGGT	13150
TCCCCAGAGA GC	CAGGCAGGG GC	ATCTGTCT (GTCTGTGGGC	TTCAGCACTT 1	'AAAGAGGCT	13210
GTGTGGCCAA CC	CAGGACCCA GG	GTCCCCTC (CCCAGCTCCC	TTGGGAAGGA C	ACAGCAGTA	13270



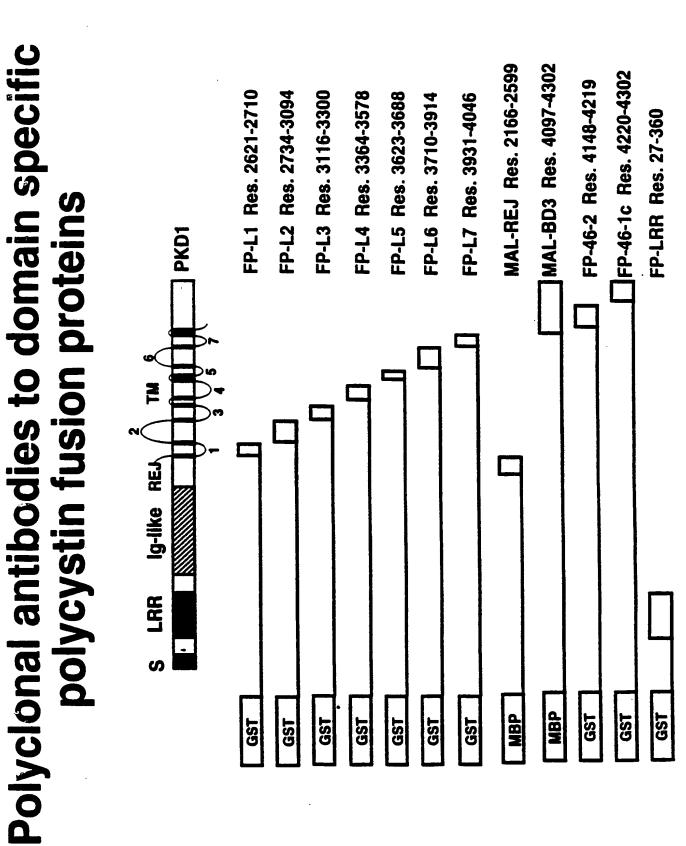


FIGURE 1S

					13330
GCCCACCC	CTGGGCAGAT	GTCCCCCACT	GCTAAGGCTG	CTGGCTTCAG	13390
CCTGCACCGC	CGCCACCCTG	CCCCTAAGTT	ATTACCTCTC	CAGTTCCTAC	13450
GCACCGTCTC	ACTGTGTGTC	TCGTGTCAGT	AATTTATATG	GTGTTAAAAT	13510
TTGTATGTCA	CTATTTTCAC	TAGGGCTGAG	GGGCCTGCGC	CCAGAGCTGG	13570
CACCTGCTGC	GCTTGGTAGG	TGTGGTGGCG	TTATGGCAGC	CCGGCTGCTG	13630
					13690
					13750
					13810
				_	13870
TGTGTGTGCG	CGCGCGCACG	CGCGAGTGTG	CTGTATGGCC	CAGGCAGCCT	13930
GGAGCTGGCT	GTGCCTGCTT	CTGTGTACCA	CTTCTGTGGG	CATGGCCGCT	13990
CGACACCCCC	CCAACCCCCG	CACCAAGCAG	ACAAAGTCAA	TAAAAGAGCT	14050
					14060
	GCCCCACCCC CCTGCACCGC GCACCGTCTC TTGTATGTCA CACCTGCTGC AGCTTGGCCT GAGGCCTTGT CTGGCATCAG GAGGAAAAGA TGTGTGTGCG GGAGCTGGCT	GCCCCACCCC CTGGGCAGAT CCTGCACCGC CGCCACCCTG GCACCGTCTC ACTGTGTGTC TTGTATGTCA CTATTTTCAC CACCTGCTGC GCTTGGTAGG AGCTTGGCCT TGGGCCGGTG GAGGCCTTGT CATCCTCCCT CTGGCATCAG GTCTGGGCAA GAGGAAAAGA CTCCTCCTGG TGTGTGTGCG CGCGCGCACG GGAGCTGGCT GTGCCTGCTT	GCCCCACCC CTGGGCAGAT GTCCCCACT CCTGCACCGC CGCCACCCTG CCCCTAAGTT GCACCGTCTC ACTGTGTGTC TCGTGTCAGT TTGTATGTCA CTATTTCAC TAGGGCTGAG CACCTGCTGC GCTTGGTAGG TGTGGTGGCG AGCTTGGCCT TGGGCCGGTG CTGGGGGCAC GAGGCCTTGT CATCCTCCCT TGCCCCAGGC CTGGCATCAG GTCTGGGCAA GTAGCAGGAC GAGGAAAAGA CTCCTCCTGG GGGCTGCTC TGTGTGTGCG CGCGCGCACG CGCGAGTGTG GGAGCTGGCT GTGCCTGCTT CTGTGTACCA	GCCCCACCCC CTGGGCAGAT GTCCCCCACT GCTAAGGCTG CCTGCACCGC CGCCACCCTG CCCCTAAGTT ATTACCTCTC GCACCGTCTC ACTGTGTGT TCGTGTCAGT AATTTATATG TTGTATGTCA CTATTTTCAC TAGGGCTGAG GGGCCTGCGC CACCTGCTGC GCTTGGTAGG TGTGGTGGCG TTATGGCAGC AGCTTGGCCT TGGGCCGGTG CTGGGGGCAC AGCTGTCTGC GAGGCCTTGT CATCCTCCCT TGCCCCAGGC CAGGTAGCAA CTGGCATCAG GTCTGGGCAA GTAGCAGGAC TAGGCATGTC GAGGAAAAGA CTCCTCCTGG GGGCTGGCTC CCAGGGTGGA TGTGTGTGCG CGCGCCACG CGCGAGTGTG CTGTATGGCC GGAGCTGGCT GTGCCTGCTT CTGTGTGCG	TCTAGCCTCT GAGATGCTAA TTTATTTCCC CGAGTCCTCA GGTACAGCGG GCCCCACCCC CTGGGCAGAT GTCCCCCACT GCTAAGGCTG CTGGCTTCAG GCCCCACCCC CGCCACCCTG CCCCTAAGTT ATTACCTCTC CAGTTCCTAC GCACCGTCTC ACTGTGTCC TCGTGTCAGT AATTTATATG GTGTTAAAAT TTGTATGTCA CTATTTTCAC TAGGGCTGAG GGGCCTGCGC CCAGAGCTGG CACCTGCTGC GCTTGGTAGG TGTGGTGGCG TTATGGCAGC CCGGCTGCTG AGCTTGGCCT TGGGCCGGTG CTGGGGGCAC AGCTGTCTGC CAGGCACTCT GAGGCCTTGT CATCCTCCCT TGCCCCAGGC CAGGTAGCAA GAGAGCAGCG CTGGCATCAG GTCTGGGCAA GTAGCAAGAC TAGGCATGTC AGAGGACCCC GAGGAAAAGA CTCCTCCTGG GGGCTGGCTC CCAGGGTGGA GGAAGGTGAC TGTGTGTGCG CGCGCCACG CGCGAGTGTG CTGTATGGCC CAGGCAGCCT GGAGCTGGCT GTGCCTGCTT CTGTGTACCA CTTCTGTGGG CATGGCCGCT CGACACCCCC CCAACCCCCG CACCAAGCAG ACAAAGTCAA TAAAAGAGCT

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FIGURE 2





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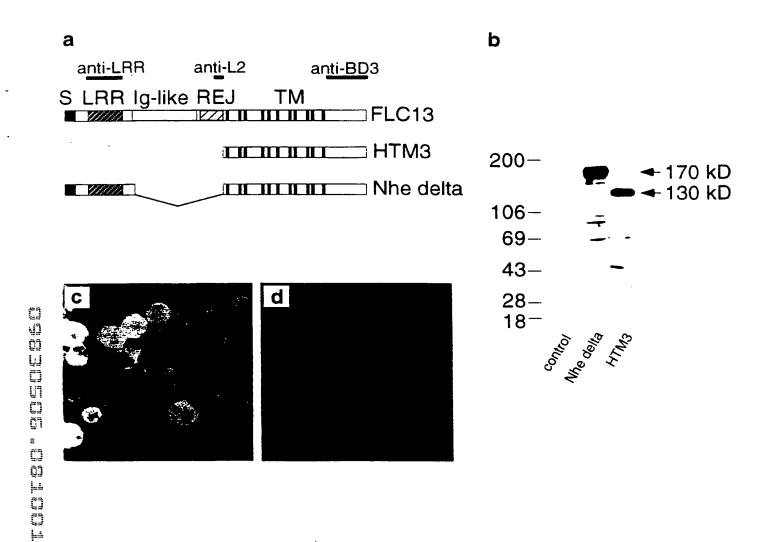
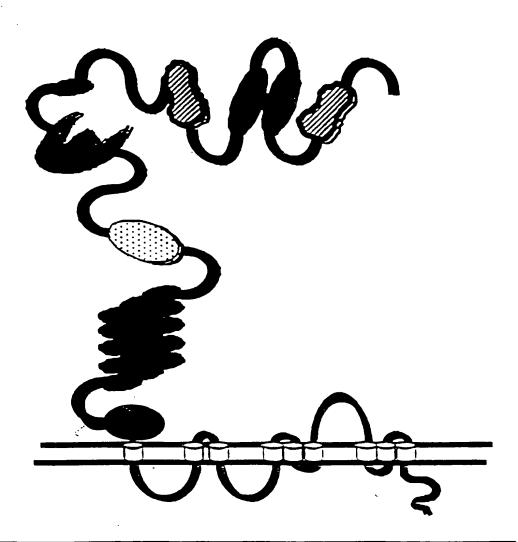


FIGURE 3



FIGURE 4



KEY



N - amino flanking region C - carboxy flanking region



LRR - leucine-rich repeats



Ig-like domains



C-type lectin domain



REJ - domain with homology to the receptor for egg jelly

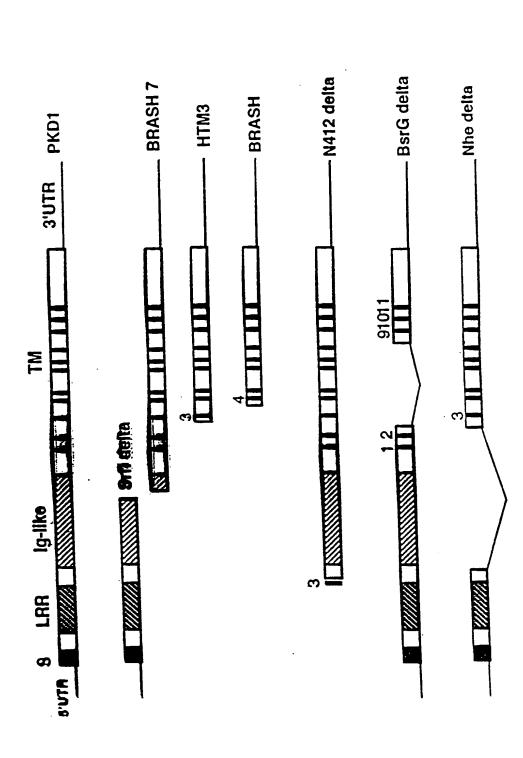


🕒 LDL - like domain



TM - putative transmembrane region





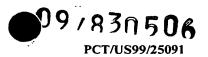


FIGURE 6

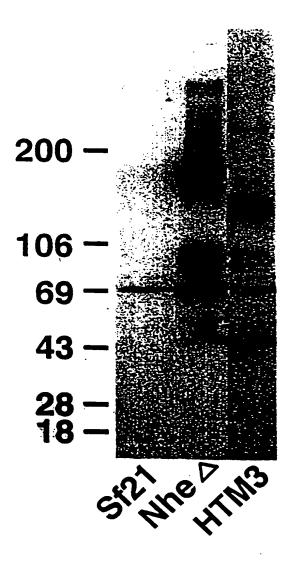


FIGURE 7

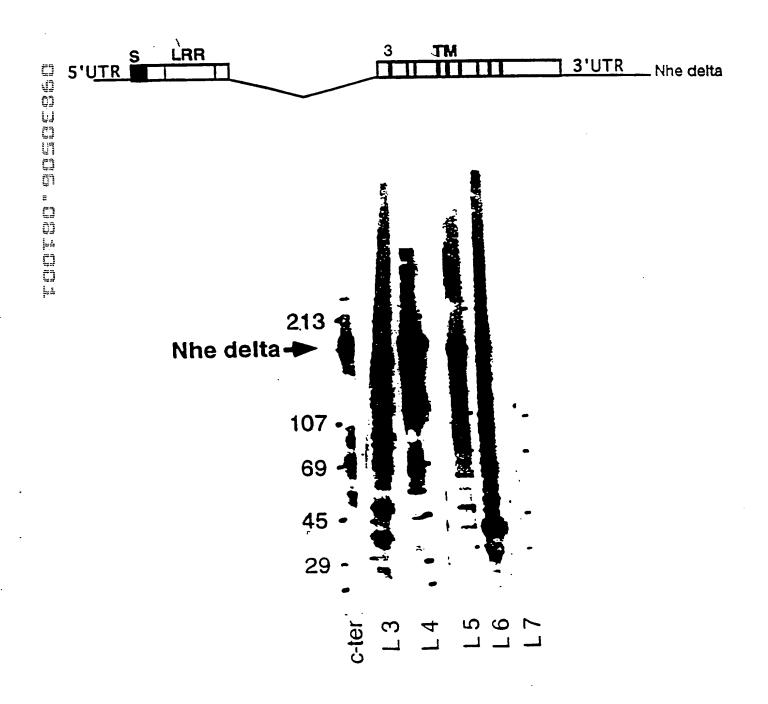


FIGURE 8

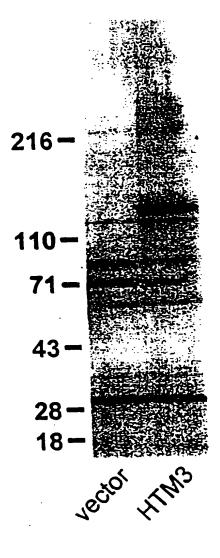




FIGURE 9

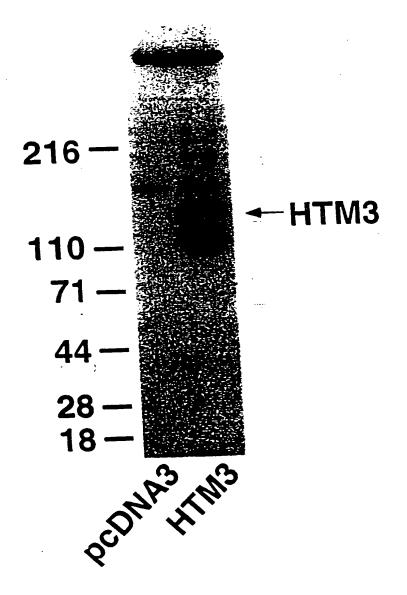


FIGURE 10A

translated

kidney liver

106 — 69 — 69 — 60 or start of so or

.



FIGURE 10B

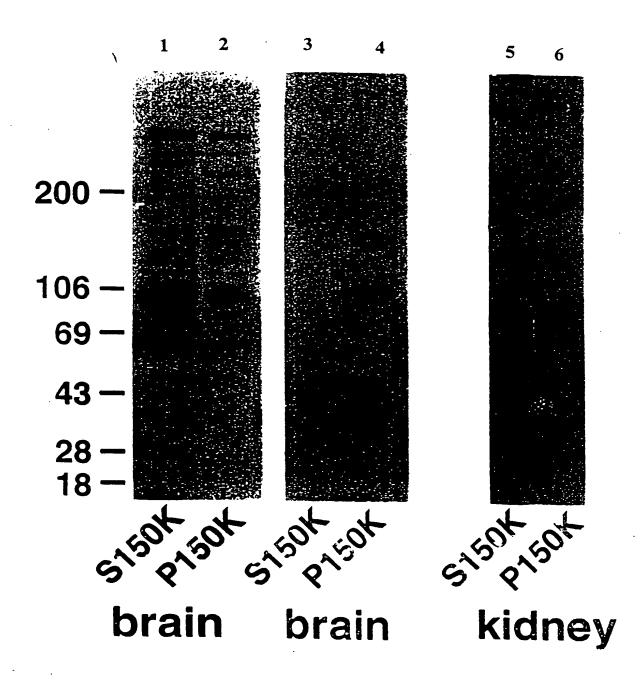




FIGURE 10C

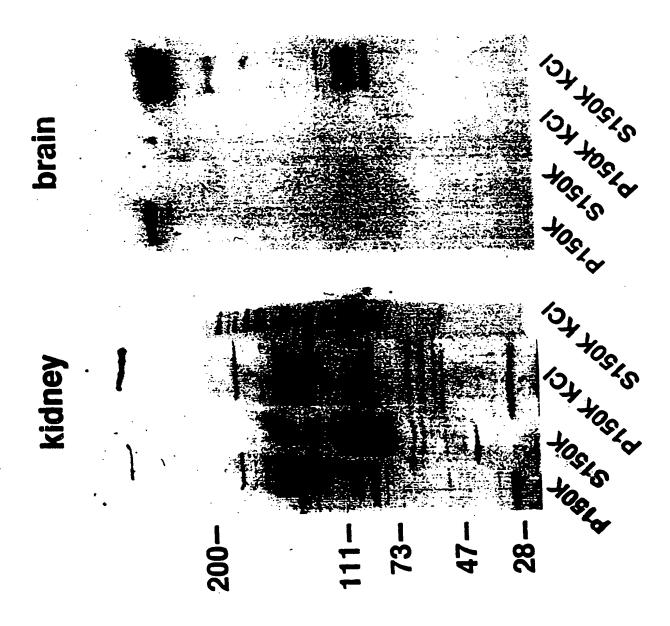
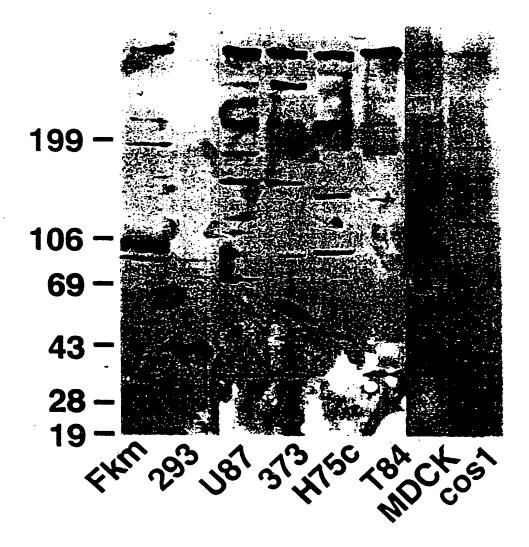




FIGURE 10D



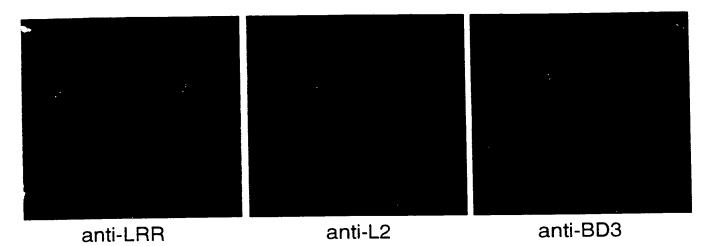


FIGURE 11



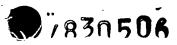
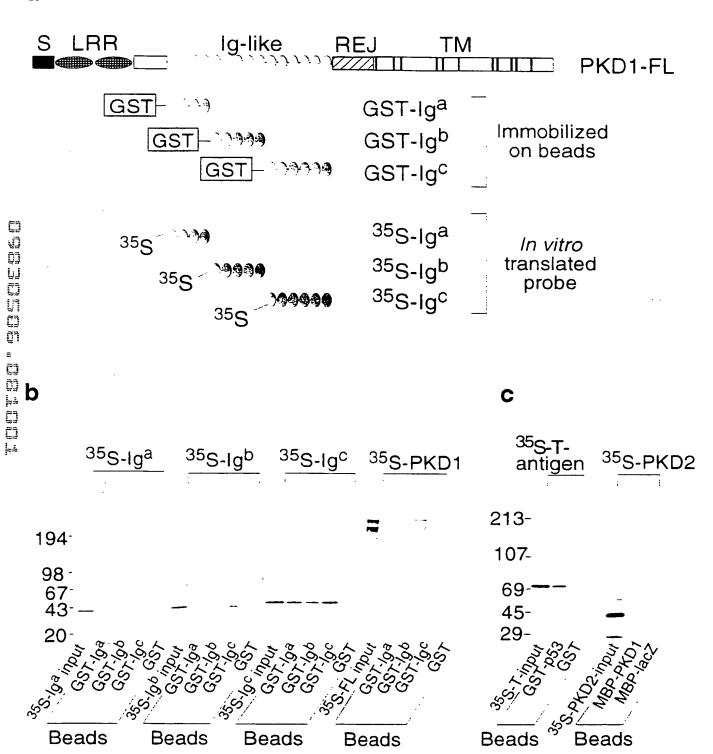


FIGURE 12

Э



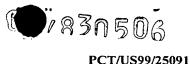


FIGURE 13

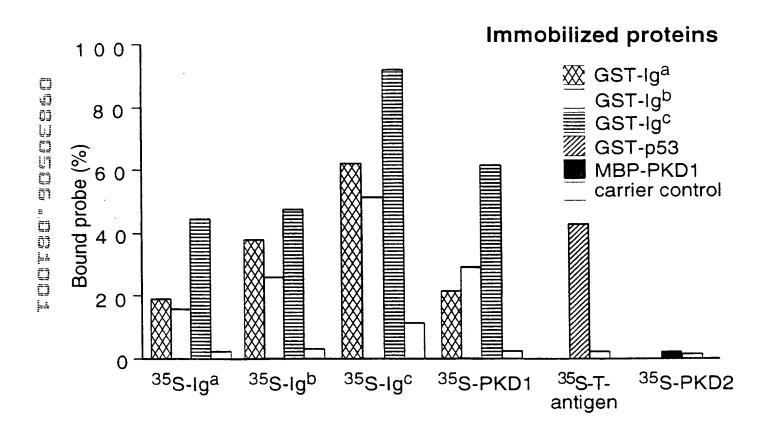


FIGURE 14

